

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/810,486  
Source: IFWQ  
Date Processed by STIC: 11/18/04

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 11/18/2004

PATENT APPLICATION: US/10/810,486

TIME: 16:44:53

Input Set : D:\401c1.app.txt

Output Set: N:\CRF4\11182004\J810486.raw

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3 <110> APPLICANT: Furusawa, Mitsuru
6 <120> TITLE OF INVENTION: METHOD AND SYSTEM FOR RAPIDLY CONFERRING
7   A DESIRED TRAIT TO AN ORGANISM
9 <130> FILE REFERENCE: 690116.401C1
11 <140> CURRENT APPLICATION NUMBER: 10/810,486
12 <141> CURRENT FILING DATE: 2004-03-26
14 <150> PRIOR APPLICATION NUMBER: US 10/684,141
15 <151> PRIOR FILING DATE: 2003-10-10
17 <150> PRIOR APPLICATION NUMBER: JP 2003-092898
18 <151> PRIOR FILING DATE: 2003-03-28
20 <160> NUMBER OF SEQ ID NOS: 95
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 3551
26 <212> TYPE: DNA
27 <213> ORGANISM: Saccharomyces cerevisiae
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93 <211> LENGTH: 1097
94 <212> TYPE: PRT
95 <213> ORGANISM: Saccharomyces cerevisiae
97 <400> SEQUENCE: 2
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100 Glu Asp Thr Pro Gln Leu Glu Lys Lys Ile Lys Arg Gln Ser Ile Asp
101 20 25 30
102 His Gly Val Gly Ser Glu Pro Val Ser Thr Ile Glu Ile Ile Pro Ser
103 35 40 45
104 Asp Ser Phe Arg Lys Tyr Asn Ser Gln Gly Phe Lys Ala Lys Asp Thr
105 50 55 60
106 Asp Leu Met Gly Thr Gln Leu Glu Ser Thr Phe Glu Gln Glu Leu Ser
107 65 70 75 80

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110 Phe Glu Arg Lys Lys Leu Pro Thr Asp Phe Asp Pro Ser Leu Tyr Asp
111           100           105           110
112 Ile Ser Phe Gln Gln Ile Asp Ala Glu Gln Ser Val Leu Asn Gly Ile
113           115           120           125
114 Lys Asp Glu Asn Thr Ser Thr Val Val Arg Phe Phe Gly Val Thr Ser
115           130           135           140
116 Glu Gly His Ser Val Leu Cys Asn Val Thr Gly Phe Lys Asn Tyr Leu
117 145           150           155           160
118 Tyr Val Pro Ala Pro Asn Ser Ser Asp Ala Asn Asp Gln Glu Gln Ile
119           165           170           175
120 Asn Lys Phe Val His Tyr Leu Asn Glu Thr Phe Asp His Ala Ile Asp
121           180           185           190
122 Ser Ile Glu Val Val Ser Lys Gln Ser Ile Trp Gly Tyr Ser Gly Asp
123           195           200           205
124 Thr Lys Leu Pro Phe Trp Lys Ile Tyr Val Thr Tyr Pro His Met Val
125           210           215           220
126 Asn Lys Leu Arg Thr Ala Phe Glu Arg Gly His Leu Ser Phe Asn Ser
127 225           230           235           240
128 Trp Phe Ser Asn Gly Thr Thr Thr Tyr Asp Asn Ile Ala Tyr Thr Leu
129           245           250           255
130 Arg Leu Met Val Asp Cys Gly Ile Val Gly Met Ser Trp Ile Thr Leu
131           260           265           270
132 Pro Lys Gly Lys Tyr Ser Met Ile Glu Pro Asn Asn Arg Val Ser Ser
133           275           280           285
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135           290           295           300
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137 305           310           315           320
138 Asp Ile Glu Cys Ala Gly Arg Ile Gly Val Phe Pro Glu Pro Glu Tyr
139           325           330           335
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141           340           345           350
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143           355           360           365
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147 385           390           395           400
148 Tyr Asn Thr Thr Asn Phe Asp Ile Pro Tyr Leu Leu Asn Arg Ala Lys
149           405           410           415
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151           420           425           430
152 Lys Gln Glu Ile Lys Glu Ser Val Phe Ser Ser Lys Ala Tyr Gly Thr
153           435           440           445
154 Arg Glu Thr Lys Asn Val Asn Ile Asp Gly Arg Leu Gln Leu Asp Leu
155           450           455           460
156 Leu Gln Phe Ile Gln Arg Glu Tyr Lys Leu Arg Ser Tyr Thr Leu Asn

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160 Ser Ile Ile Ser Asp Leu Gln Asn Gly Asp Ser Glu Thr Arg Arg Arg
161          500          505          510
162 Leu Ala Val Tyr Cys Leu Lys Asp Ala Tyr Leu Pro Leu Arg Leu Met
163          515          520          525
164 Glu Lys Leu Met Ala Leu Val Asn Tyr Thr Glu Met Ala Arg Val Thr
165          530          535          540
166 Gly Val Pro Phe Ser Tyr Leu Leu Ala Arg Gly Gln Gln Ile Lys Val
167 545          550          555          560
168 Val Ser Gln Leu Phe Arg Lys Cys Leu Glu Ile Asp Thr Val Ile Pro
169          565          570          575
170 Asn Met Gln Ser Gln Ala Ser Asp Asp Gln Tyr Glu Gly Ala Thr Val
171          580          585          590
172 Ile Glu Pro Ile Arg Gly Tyr Tyr Asp Val Pro Ile Ala Thr Leu Asp
173          595          600          605
174 Phe Asn Ser Leu Tyr Pro Ser Ile Met Met Ala His Asn Leu Cys Tyr
175          610          615          620
176 Thr Thr Leu Cys Asn Lys Ala Thr Val Glu Arg Leu Asn Leu Lys Ile
177 625          630          635          640
178 Asp Glu Asp Tyr Val Ile Thr Pro Asn Gly Asp Tyr Phe Val Thr Thr
179          645          650          655
180 Lys Arg Arg Arg Gly Ile Leu Pro Ile Ile Leu Asp Glu Leu Ile Ser
181          660          665          670
182 Ala Arg Lys Arg Ala Lys Lys Asp Leu Arg Asp Glu Lys Asp Pro Phe
183          675          680          685
184 Lys Arg Asp Val Leu Asn Gly Arg Gln Leu Ala Leu Lys Ile Ser Ala
185          690          695          700
186 Asn Ser Val Tyr Gly Phe Thr Gly Ala Thr Val Gly Lys Leu Pro Cys
187 705          710          715          720
188 Leu Ala Ile Ser Ser Ser Val Thr Ala Tyr Gly Arg Thr Met Ile Leu
189          725          730          735
190 Lys Thr Lys Thr Ala Val Gln Glu Lys Tyr Cys Ile Lys Asn Gly Tyr
191          740          745          750
192 Lys His Asp Ala Val Val Val Tyr Gly Asp Thr Asp Ser Val Met Val
193          755          760          765
194 Lys Phe Gly Thr Thr Asp Leu Lys Glu Ala Met Asp Leu Gly Thr Glu
195          770          775          780
196 Ala Ala Lys Tyr Val Ser Thr Leu Phe Lys His Pro Ile Asn Leu Glu
197 785          790          795          800
198 Phe Glu Lys Ala Tyr Phe Pro Tyr Leu Leu Ile Asn Lys Lys Arg Tyr
199          805          810          815
200 Ala Gly Leu Phe Trp Thr Asn Pro Asp Lys Phe Asp Lys Leu Asp Gln
201          820          825          830
202 Lys Gly Leu Ala Ser Val Arg Arg Asp Ser Cys Ser Leu Val Ser Ile
203          835          840          845
204 Val Met Asn Lys Val Leu Lys Lys Ile Leu Ile Glu Arg Asn Val Asp
205          850          855          860

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209                      885                      890                      895
210 Tyr Thr Asn Pro Gln Pro His Ala Val Leu Ala Glu Arg Met Lys Arg
211                      900                      905                      910
212 Arg Glu Gly Val Gly Pro Asn Val Gly Asp Arg Val Asp Tyr Val Ile
213                      915                      920                      925
214 Ile Gly Gly Asn Asp Lys Leu Tyr Asn Arg Ala Glu Asp Pro Leu Phe
215                      930                      935                      940
216 Val Leu Glu Asn Asn Ile Gln Val Asp Ser Arg Tyr Tyr Leu Thr Asn
217 945                      950                      955                      960
218 Gln Leu Gln Asn Pro Ile Ile Ser Ile Val Ala Pro Ile Ile Gly Asp
219                      965                      970                      975
220 Lys Gln Ala Asn Gly Met Phe Val Val Lys Ser Ile Lys Ile Asn Thr
221                      980                      985                      990
222 Gly Ser Gln Lys Gly Gly Leu Met Ser Phe Ile Lys Lys Val Glu Ala
223                      995                      1000                      1005
224 Cys Lys Ser Cys Lys Gly Pro Leu Arg Lys Gly Glu Gly Pro Leu Cys
225 1010                      1015                      1020
226 Ser Asn Cys Leu Ala Arg Ser Gly Glu Leu Tyr Ile Lys Ala Leu Tyr
227 1025                      1030                      1035                      1040
228 Asp Val Arg Asp Leu Glu Glu Lys Tyr Ser Arg Leu Trp Thr Gln Cys
229                      1045                      1050                      1055
230 Gln Arg Cys Ala Gly Asn Leu His Ser Glu Val Leu Cys Ser Asn Lys
231                      1060                      1065                      1070
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241 <213> ORGANISM: Saccharomyces cerevisiae
243 <400> SEQUENCE: 3
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